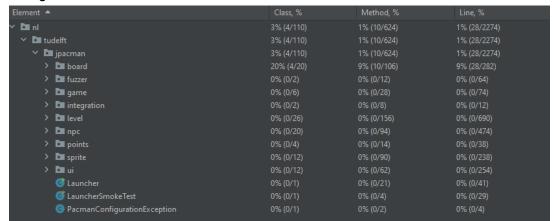
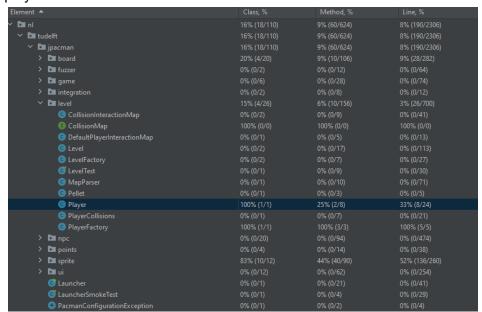
- Repo Link: https://github.com/carruthjhall/cs472-team6
- Task 1
 - Class, Method, Line
 - First Coverage Test



- Coverage started at 3% Class, 1% Method, and 1% Line
- Added playerTest



- After adding the playerTest, coverage jumped up to 16%-C, 9%-M, 8%-L
- Added pelletTest src/main/java/nl/tudelft/jpacman/level/LevelFactory.java/createPellet

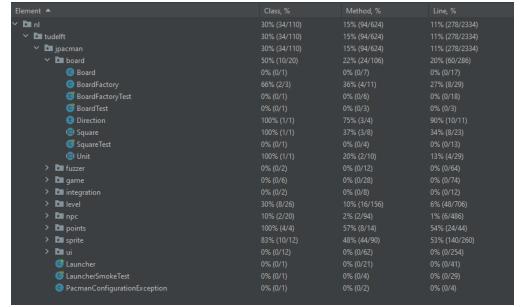
```
package nl.tudelft.jpacman.level;

import nl.tudelft.jpacman.npc.ghost.GhostFactory;
import nl.tudelft.jpacman.points.PointCalculator;
import nl.tudelft.jpacman.points.PointCalculatorLoader;
import nl.tudelft.jpacman.sprite.PacManSprites;
import static org.assertj.core.api.Assertions.assertThat;
import org.junit.jupiter.api.Test;

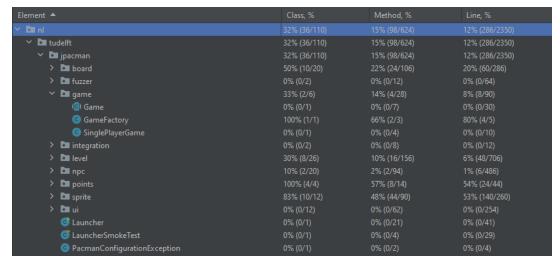
nousages new*
public class PelletTest {

    2 usages
    PacManSprites ps = new PacManSprites();
    1 usage
    GhostFactory ghost = new GhostFactory(ps);
    1 usage
    PointCalculator pc = new PointCalculatorLoader().load();
    1 usage
    LevelFactory lf = new LevelFactory(ps, ghost, pc);
    no usages new*
    QTest
    void pelletTest(){
        assertThat(lf.createPellet()).isNotNull();
    }
}
```

 Added createGroundTest src/main/java/nl/tudelft/jpacman/board/BoardFactory.java/createGround



 Added getPlayerFactoryTest src/main/java/nl/tudelft/jpacman/game/GameFactory.java/getPlayerFactory



```
package nl.tudelft.jpacman.game;
import static org.assertj.core.api.Assertions.assertThat;
import nl.tudelft.jpacman.level.PlayerFactory;
import nl.tudelft.jpacman.sprite.PacManSprites;
import org.junit.jupiter.api.Test;

no usages new*
public class getPlayerFactoryTest {

    lusage
    PacManSprites spr = new PacManSprites();
    lusage
    PlayerFactory p = new PlayerFactory(spr);

    lusage
    GameFactory g = new GameFactory(p);

    no usages new*
    @Test
    void getPlayerFactoryTest(){
        assertThat(g.getPlayerFactory()).isNotNull();
    }
}
```

Task 3

- The coverage results are not exactly the same as IntellJ. Intellj is saying there are 706 lines in "nl.tudelft.jpacman.level" for example, however Jacoco says there are 344 lines. I am assuming that Jacoco is omitting lines such as whitespace and/or lines that don't necessarily require a check such as setting a local variable.
- The source code visualization on Jacoco is significantly more helpful as since it shows the lines that are covered in green, and those not covered in red. This helps find exactly where we need to apply more coverage to.

 I preferJacoco's visualization since it lets you see the exact lines that need attention, however IntellJ's coverage window is more convenient since it is built into the workspace. That being said, Jacoco would be my go to in a real life situation.